

===== WPI =====

TI - Lateral flow type ion exchanging device - has lateral ion exchange cylinder and vertical backwash hopper connected through breaking valve

AB - J03154641 The device comprises a lateral ion exchanging cylinder, and a vertical backwash hopper. Both are connected with each other through a breaking valve. Ion exchange resin is filled in the cylinder and piping between the cylinder and the valve.

- ADVANTAGE - The height of the device can be reduced. Installation at a site is not necessary. (7pp Dwg.No.0/3)

PN - JP3154641 A 19910702 DW199132 000pp

PR - JP19890291334 19891110

PA - (JAOR) JAPAN ORGANO CO LTD

MC - J01-D04

DC - J01

IC - B01D15/00 ;B01J47/02

AN - 1991-235473 [32]

===== PAJ =====

TI - TRANSVERSE FLOW-TYPE ION-EXCHANGE APPARATUS

AB - PURPOSE: To lower the height of the whole ion-exchange apparatus remarkably as compared with that of the conventional one by installing an ion exchange column filled with an ion-exchange resin and a hopper for reverse washing the ion-exchange resin separately and setting the ion-exchange resin column transversely.

- CONSTITUTION: A transverse flow-type ion-exchange apparatus has a cylindrical ion-exchange resin column 1 set transversely so as to run a raw liquid transversely from one end to the other end for treatment and a reverse washing hopper 2 which is set vertically and for washing the ion-exchange resin packed in the inside of the column 1 with ascending water for reverse washing. The bottom part of the hopper 2 and the end part of the exchange column 1 in the raw liquid flowing-in side are connected each other through a shut-off valve 5 and without empty space, ion-exchange resin 9 are packed in the exchange column 1 and a pipe 6 from the exchange column 1 to the shut-off valve 5. As a result, the height of the whole of the apparatus is remarkably lowered as compared with that of a conventional one and in the case that the apparatus is skidded, it is transported as it is by carrying it on a truck or trailer.

PN - JP3154641 A 19910702

PD - 1991-07-02

ABD - 19910927

ABV - 015385

AP - JP19890291334 19891110

GR - C0871

PA - JAPAN ORGANO CO LTD

IN - YODA TOSHIO

I - B01J47/02 ;B01D15/00 ;B01D15/04